

Abstract of the Disclosure

A method, compiler and platform independent framework are provided for parsing and generating data structures. `Sizeof` and `offsetof` functions are utilized for defining a length and a location of each parameter of a data structure. The length and location of each parameter of the data structure are stored within an identifier object in a data structure definition. The identifier structure is based on the definition of the data structure itself so that the problem of duplicating the data structure definition is eliminated.

5 The `Sizeof` and `offsetof` functions automatically account for compiler and platform differences which otherwise would lead to alignment problems so that compiler and platform independence from data structure realignment is provided.

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